WEST Search History

Hide Items Restore Clear Cancel

DATE: Wednesday, December 29, 2004

Hide?	Set Name	Query	Hit Count
	DB=USP7	T,EPAB,JPAB,DWPI,TDBD; PLUR=NO	O; OP=ADJ
	L10	6677475 or 6730371 or 6821581	6
	L9	6835427 or 6699532 or 6805921	6
	L8	15 same liquid crystal\$	26
	L7	15 and optically active	5
	L6	15 same optically active	2
	L5	swallow\$ tail\$	449
	L4`	ep-1380567-\$.did.	2
	DB=PGPI	B; PLUR=NO; OP=ADJ	
	L3	US-20040127538-A1.did.	1
	L2	US-20040127538-A1.did.	1
	DB=USP1	T,EPAB,JPAB,DWPI,TDBD; PLUR=NO	O; OP=ADJ
	L1	ep-1380576-\$.did.	2

END OF SEARCH HISTORY

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C:\Program Files\Stnexp\Queries\614296b.s
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1 2 3 4
                5
                         16
                             17
                                 26
                                     27
                                         28
                                             29
                                                 30
                                                     31
                                                         32
                                                              33
                                                                  34
                                                                      41
                                                                          42
ring nodes :
          12
   10 11
               13
                   14
                        15 20
                                21
                                    22
                                        23
                                            24
                                                25
                                                     43
                                                             45
                                                                     47
                                                         44
                                                                 46
                                                                         48
chain bonds :
    1-2 1-3 1-11 3-4
                        4-5 4-6 6-7 14-16 16-17 17-22
                                                              25-41
                                                                     26-28
    26-27 26-48 28-29
                        29-30 29-31 31-32 32-33
                                                     32-34
                                                             41-42
                                                                    42-45
ring bonds :
                                              20-21
    10-11
          10-15
                 11-12
                         12-13
                                13-14
                                       14-15
                                                     20-25
                                                             21-22
                                                                    22-23
   24-25
          43-44
                 43-48
                         44-45
                                45-46
                                       46-47
                                              47-48
exact/norm bonds :
    1-2 1-3 3-4 10-11
                         10-15
                                11-12
                                       12-13
                                              13-14
                                                     14-15
                                                            14-16 16-17
    17-22 20-21
41-42 42-45
                 20-25
                        21-22
                                22-23 23-24
                                              24-25
                                                     25-41
                                                             26-28 26-27
                                                                           28-29
   41-42
                 43-44
                         43-48
                                44 - 45
                                       45-46
                                              46-47
                                                     47-48
exact bonds :
   1-11 4-5
              4-6 6-7
                         26-48 29-30
                                       29-31
                                              31-32
                                                     32-33
                                                            32-34
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G1:C,O

Match level :

chain nodes :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 41:CLASS 42:CLASS 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom

```
2004:35450 CAPLUS
AN
    140:102117
DN
    Entered STN: 15 Jan 2004
ED
TI
    Chiral compounds as dopants for liquid crystals
    Motoyama, Yuki; Aoki, Takashi; Johno, Masahiro
IN
    Mitsubishi Gas Chemical Company, Inc., Japan
PA
    Eur. Pat. Appl., 15 pp.
SO
    CODEN: EPXXDW
DT
    Patent
    English
LA
IC
    ICM C07C069-94
     ICS C07C069-90; C09K019-58
     74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
CC
    Reprographic Processes)
     Section cross-reference(s): 75
FAN.CNT 1
                       KIND DATE
                                         APPLICATION NO.
    PATENT NO.
                                                               DATE
                              -----
                                          -----
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                        A1
                              20040114 EP 2003-14549
                                                                20030707
ΡI
    EP 1380567
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                       A2
     JP 2004035525
                              20040205 JP 2002-198697
                                                                 20020708
PRAI JP 2002-198697
                        Α
                               20020708
CLASS
               CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
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                ICM
                       C07C069-94
 EP 1380567
                       C07C069-90; C09K019-58
                ICS
                       C07C069/94; C09K019/58B
 EP 1380567
                ECLA
 JP 2004035525 FTERM 4H006/AA01; 4H006/AB64; 4H006/BJ50; 4H006/KA14;
                       4H027/BA02; 4H027/BD14; 4H027/CF10; 4H027/CG10;
                       4H027/CP10; 4H027/DK10
OS
    MARPAT 140:102117
    The present invention relates to a optically active compound of the general
AB
     formula: CnH2n+1CHCH3-OOC-X-COO-CH(CH3)CH2CH(C2H5)2 (n = 4-8; X =
     -Ph-COO-Ph-Ph-, -Ph-Ph-COO-Ph-, -Ph-OOC-Ph-Ph-, -Ph-Ph-OOC-Ph-,
     -Ph-Ph-Ph-, -Cy-COO-Ph-Ph-, -Ph-Ph-OOC-Cy-, -Ph-OOC-Ph-COO-Ph-,
     -Ph-OOC-Cy-COO-Ph-, -Ph-OOC-Np-COO-Ph-, -Np-OOC-Ph- or -Ph-COO-Np- in
     which Ph = 1,4-phenylene group; Cy = trans-1,4-cyclohexylene group; Np =
     2,6-naphthylene group; C* = asym. carbon), and a nematic liquid crystal
     composition containing the above optically active compound According to the
present
     invention, there is provided a nematic liquid crystal composition containing
the
     optically active compound having a helical twisting power (HTP) of 10 or
     more and giving a chiral dopant for a nematic liquid crystal, which chiral
     dopant has a property that the pitch of its induced helix decreases in
     length with an increase in temperature
ST
     chiral compd dopant liq crystal display
IT
    Liquid crystal displays
        (chiral compds. as dopants for liquid crystals)
IT
     Liquid crystals
        (nematic; chiral compds. as dopants for liquid crystals)
     2345-34-8, 4-Acetoxybenzoic acid 2351-37-3, 4,4'-Biphenyldicarbonyl
IT
              6033-24-5 58574-03-1, 4'-Hydroxybiphenyl-4-carboxylic acid
     chloride
     220150-55-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (chiral compds. as dopants for liquid crystals)
     27914-73-4P, 4-Acetoxybenzoyl chloride 75175-09-6P, 4'-Acetoxybiphenyl-4-
TT
     carboxylic acid 109233-63-8P, 4'-Acetoxybiphenyl-4-carbonyl chloride
                   183538-51-4P 443682-48-2P
                                               443682-49-3P 443682-63-1P
     122370-33-6P
     443682-67-5P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
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(chiral compds. as dopants for liquid crystals)

IT 643012-98-0P 643013-02-9P 643013-07-4P 643013-10-9P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(chiral compds. as dopants for liquid crystals)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014 (539), PC-0782
- (2) Anon; PATENT ABSTRACTS OF JAPAN 1993, V017 (291), PC-1067
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1993, V017(309), PC-1070
- (4) Dainippon Ink & Chem Inc; JP 02227489 A 1990 CAPLUS
- (5) Kanebo Ltd; JP 05017405 A 1993 CAPLUS
- (6) Kashima Sekiyu Kk; JP 05025085 A 1993 CAPLUS
- (7) Mitsubishi Gas Chemical Co; EP 1249484 A 2002 CAPLUS
- (8) Mitsubishi Gas Chemical Co; EP 1270542 A 2003 CAPLUS
- (9) Nakauchi, J; JAPANESE JOURNAL OF APPLIED PHYSICS 1989, V28(2), PL272 CAPLUS